

1. Today's show is about ____sound____.
2. Sound is just tiny ____movements (vibrations)____ in air.
3. An oscilloscope lets us see ____waves____.
4. Why is the ear cup shaped? To focus the sound
5. Can you hear sounds through metal? yes
6. Sound travel ____18 times____ faster through metal than through air.
7. Did sound travel through the bricks? yes
8. Slinkies are perfect for showing how ____sound waves____ travel.
9. Sound waves make air molecules ____squeeze____ together.
10. When the wave hits the wooden barrier it ____bounces back____.
11. When that happens with a sound wave it makes an ____echo____.
12. Can sound waves pass through each other? yes
13. The eardrum vibrates and then moves tiny ____bones____.
14. Tiny ____hairs____ send signals to the brain so you know what you are hearing.
15. ____Frequency____ is how often a wave passes over a certain point.
16. With sound a ____faster____ wave results in a ____higher____ frequency and a higher pitch.
17. A lower frequency wave has a ____lower____ pitch.
18. In order to determine which direction sound comes from our ears ____time____ when the sounds reach each one.
19. Can you hear ultrasound waves? no
20. When the strings of a piano vibrate they are vibrating at their ____natural frequency____.
21. ____Resonance____ is when air molecules that are already vibrating cause the strings to vibrate at their natural frequencies.
22. Sound and light are really forms of ____energy____.
23. Sound is made when something ____vibrates____.